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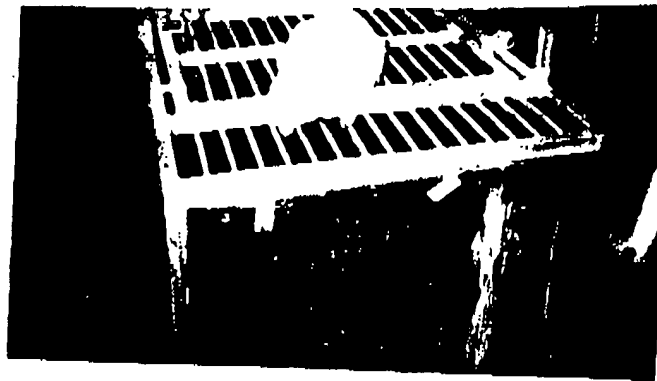
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EXHIBIT A



88-891

m

Do ROI

Full 10
2 wash-out
curves

Want to see

Dispersion - gradient
initially and
then later echo

Used 3 part
intensity standards
for flow measurements

Cat coil 180 -

232 Acc

TIR/TE - 200%

Scout : XA-C

3A:3
2 for each slice

Seq. E24

XA-56

Set 90-180 with OC

3 3A slice -
1A 5A
slice Feb 3

32 - 50 good
Auto. scales gen.

occ @ 1/3

File
Control

MCAD Pre 1:28

MM62A pre 1:28

Dispersion

500 mda / 200

500 mda / 200

1 mda / 1/3 or low.

5 mda / 200

TE = 50

5 mda * X = 2.4 mda

Inject 4.8 ml - inject over 5 m.
Start inject at scan 30 or 30 want it all in by
Maximum echo.

Minutes
Scan
Time

MCAD Post 1:45 OC 49 CU 40 MA 2 -

MM62B

Post 1:58

Post 2:10

MM62C
330 20



S-043 (Lys2PROSium DTPA) / VEN-IONIC CONTRAST M, MCA-O MODEL

2.4 kg injected i.v. to 65 mg/kg Nembutal (21.3 ml)

MCA surgery

1:13 MCA-O (R) Thermocautery + transection

1:16 in CST

MAP 117 mmHg

1:40 T₂W multiblock suggests ipsilateral edema LV

1:50 2nd drop from 110 to 90 during injection

1:45 S-043 INJECTION OVER 3 min AT 1 mm/kg = 2.4 mM (4.8 ml)

1:49

1:54 MAP 104 mmHg

2:20 MAP 108 mmHg

2:45 completion of 4 series of T₂W (TR/TE 2800/80) coronal multiblock images from septum to midbrain (MCA territory)

m62A 1st T₂W precontrast post MCA-O → high signal (t=1:28 pm)

m62B 2nd T₂W 1-12 min post contrast (contrast 1:45 (t=1:45 → 1:57

m62C 3rd T₂W (t=1:54 → 2:11

o- 3/4 m62D 4th T₂W (t=2:12 → 2:2

1m62E 5th T₂W (t=2:47 → 2:6

3:00 MAP 112 mmHg

3:15 MAP 117 mmHg

1:28 4:30 MAP 116 mmHg

4:38 ~ 3 minute contrast injection, moderate hypertension
4:41 correct 116 → 111

4:40 MAP 115 mmHg

4:41 MAP 110 mmHg stopped inject

by 5:20 MAP 108 mmHg

62B 5:25 MAP 114 HR 150 .3 ml Nembutal i.v. MAP 110 mmHg HR 146 bpm

62C

62D

62E

~~XA~~ XA-2C - E24. 128 x 256 x 4.

ADCI
see
ASC
QPP on 0

MAG2 F -

3:13

TR 1000/50 NA2 GN 30 PPS 0

5mm slice got a severe partial volume averaging effect.
Went to 3mm slice. (Note: remember new to doing this and check!)

MAG2 G

PPS = 1414

BB = 2000

2828

4,00

5050

8,000

11312

TR-1500
TE-60

sort data \Rightarrow No!

H
I
J
K
L
M
N

2800/50
NA/2
OC-49
pre-4:23

E24

MAG2 N

O
P
Q
R

coefficient of pure H₂O is 2.5×10^{-3}
C/L slice
echo off screen at 0312
4:23

post - 4:35
post - 4:48
post - 5:02
post - 5:37

E24 images stored in files: 1324

start
injection
scan
to CL

procedure
check OC
CL \Rightarrow compi operate + load
BO \Rightarrow 128
input file name

Workup
XA 2C
MAG2 N
vinda site 10
SI = 5

1324 \rightarrow SI - st
dot files

4:25 Pre-contrast T2W coronal multishot (TR/TE 2800/80)
- internal control - B6 signal intensity

4:35 Start 1st post-contrast T2W

- high signal cortical - B6 (non perfused)

4:48 Start 2nd post-contrast T2W

5:02 Start 3rd post-contrast T2W

5:37 Start 4th post-contrast T2W

6:30 0.3 ml Nembutal i.v.

7:05 Nembutal overdose

50 ml transcardial 2% TTC

brain removed after 20 min - immersed in TTC for 5 min
stored in 10% buffered formalin for 24 h

Coronal sections 5-7 mm thick show infarcted
tissue through MCA-0 (R) territory

Close correspondence with T2W MRI appearance

LO214A DAT

2800/80

3/4

OL 52

11.9 minutes

9~50

1-4
5-8
9-12
10-11
13-14-15-16

Contest
MI
C → either kids
or H input H's
Start with 70/120

Tape Backup

I - initialize
W
MM62*.dat
Command?
A.
File name :

winform
41-71

Command?

A

File name: MM63*.DAT

Command?

A

File name: MM61*.DAT

Command?

B → tape back
to beginning

Command?

Q → Quit

• Hang

Tape Read

R* - read all subseq
take tape off-line
.DAT

lots right reversed
ROT

XY.2C
XY.3
CM 20/20

GG

call up middle 6
128 ⇒ YS

CV

3 levels

scale
largest
value

↓ down
center hole

↑

Reverse S1-S4 141
✓ M1 - M4
✓ N1 - N4
✓ O1 - O4
✓ P1 - P4
✓ Q1 - Q4

From listing image Comment: control p

1. Pick one ROI then $M1, N1, O1, P1, Q1$
When yellow type $\geq \rightarrow$ red bar

\leftarrow in and at back side
 \updownarrow up & down

$I =$ returns integral of bar.

total 320 ROI's



white rather

type I \Rightarrow integral

return

return

Q

CV N1

return

return

Choose 2.5×2.5 voxels

S. $xw = 2.5$
 $Yw = 2.5$

Exp. $25 - 40$
Pos - 300

CNT - 300/0

brightness - 10

Exp. 25 - Frame 1

hit pos.

Exp - 30

position - 2

Exp

PI - C

start at 70 - 120
 \downarrow

Ted CSI ANN

Spectra

xy - 3

CB - C/C

AN - I

CSI ANN

AN - S

Q

Colson

G-LECSI

CC File

AN

TG

pos ANN